

## Security Audit Report



Completed on April 18, 2023



## OVERVIEW

This audit has been prepared for **ELMO** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -







## TABLE OF CONTENTS

Project Description		01
Contract Information		02
Current Stats		03
Featured Wallets		04
Vulnerability Check		05
Threat Levels		06
Found Threats	07-A	/07-в
Good Practices		08
Tokenomics		09
Website Analysis		01
Social Media & Online Presence		12
About SPYWOLF		12
Disclaimer		13



# 



### **PROJECT DESCRIPTION**

### According to their website/whitepaper:

"Elmo, the lovable red monster from Sesame Street, is now making his way into the world of cryptocurrency memes! With the rise of digital currencies and the growing popularity of memes, combining the two has become a new form of artistic expression. The Elmo Crypto Meme Project is a fun and creative way to showcase the potential of crypto and bring a smile to people's faces."

Release Date: Launched in April, 2023

Category: Meme token



## CONTRACT INFO

Token Name

Elmo

Symbol

**ELMO** 

**Contract Address** 

0xCFC5AB97783539151d57B795fe56dA43407a2b33

Network

Ethereum

Language

Solidity

Deployment Date

Apr 17, 2023

Verified?

Yes

**Total Supply** 

10,000,000 ELMO

Status

Launched

### **TAXES**

Buy Tax

0%

Sell Tax
0%



## Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

<sup>\*</sup>Taxes cannot be changed in future



### **TOKEN TRANSFERS STATS**

Transfer Count	2407
Uniq Senders	164
Uniq Receivers	284
Total Amount	1236953312.7058675 ELMO
Median Transfer Amount	234556.604285381 ELMO
Average Transfer Amount	513898.34345902264 ELMO
First transfer date	2023-04-17
Last transfer date	2023-04-18
Days token transferred	2

### **SMART CONTRACT STATS**

Calls Count	7981
External calls	543
Internal calls	7438
Transactions count	899
Uniq Callers	233
Days contract called	1
Last transaction time	2023-04-18 14:26:47 UTC
Created	2023-04-17 16:36:35 UTC
Create TX	0xb96e7f46ae34d664d7bbf0d90efbbfda6d1 2f437e13e938cdb75a4b179641d09
Creator	0xabeaa9954fea6294856a7665351d7ec826 7d156b



### FEATURED WALLETS

Owner address	0x000000000000000000000000000000000000
Marketing wallet	0xd910e0104dec0836E67E0430A8a54C930F3957F0
Development wallet	0xABEaa9954feA6294856a7665351d7eC8267D156B
LP address	<b>Uniswap:</b> 0x3aD26E4774f3708Bd9e980E725f63a6794F3d0D3

### **TOP 3 UNLOCKED WALLETS**



0x7F4F951E8E7b8c7a961C6Bb1F9eCD66667a93CF9

0x96f8B28adE88fD5C03Da49ADBC930144e2a904c4



3.18%

0xDA7d90326117B97E3Efd1A1731B9F07896558E97

04





### **VULNERABILITY CHECK**

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



### THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

### High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### Low Risk

Issues on this level are minor details and warning that can remain unfixed.

### Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



### **FOUND THREATS**

### High Risk

Development wallet and marketing wallet can initiate manual token swaps from contract and withdraw eth from the contract. If contract's token swap balance is 0 transactions will fail.

```
function manualswap() external {
   require(_msgSender() == _developmentAddress || _msgSender() == _marketingAddress);
   uint256 contractBalance = balanceOf(address(this));
   swapTokensForEth(contractBalance);
function manualsend() external {
   require(_msgSender() == _developmentAddress || _msgSender() == _marketingAddress);
   uint256 contractETHBalance = address(this).balance;
   sendETHToFee(contractETHBalance);
```

Contract's ownership is renounced. Owner does not have any special privileges.





### Informational

Before ownership renouncement owner could: Enable/disable trading, blacklist address from trading. Set fees without limit, set max transaction amount without limit.

```
function setTrading(bool _tradingOpen) public onlyOwner {
    tradingOpen = _tradingOpen;
}

function blockBots(address[] memory bots_) public onlyOwner {
    for (uint256 i = 0; i < bots_.length; i++) {
        bots[bots_[i]] = true;
    }
}

function setFee(uint256 redisFeeOnBuy, uint256 redisFeeOnSell,
uint256 taxFeeOnBuy, uint256 taxFeeOnSell) public onlyOwner {
    _redisFeeOnBuy = redisFeeOnBuy;
    _redisFeeOnSell = redisFeeOnSell;

    _taxFeeOnBuy = taxFeeOnBuy;
    _taxFeeOnSell = taxFeeOnSell;
}

function setMaxTxnAmount(uint256 maxTxAmount) public onlyOwner {
    _maxTxAmount = maxTxAmount;
}</pre>
```

Contract's ownership is renounced.

Wowner does not have any special privileges.





### **RECOMMENDATIONS FOR**

## GOOD PRACTICES

- Consider fundamental tradeoffs
- Be attentive to blockchain properties
- 3 Ensure careful rollouts
- 4 Keep contracts simple
- Stay up to date and track development

## ELMO GOOD PRACTICES FOUND

- The owner cannot mint new tokens after deployment
- The owner cannot stop or pause the contract
- The owner can set a transaction limit, but can't lower it than 1% of total supply
- The smart contract utilizes "SafeMath" to prevent overflows





### **Website URL**

https://elmoerc.com

### Domain Registry https://www.godaddy.com

### **Domain Expiration** 2024-04-17

### **Technical SEO Test**

Passed

### **Security Test**

Passed. SSL certificate present

### Design

Simple but nice color scheme and overall layout.

### Content

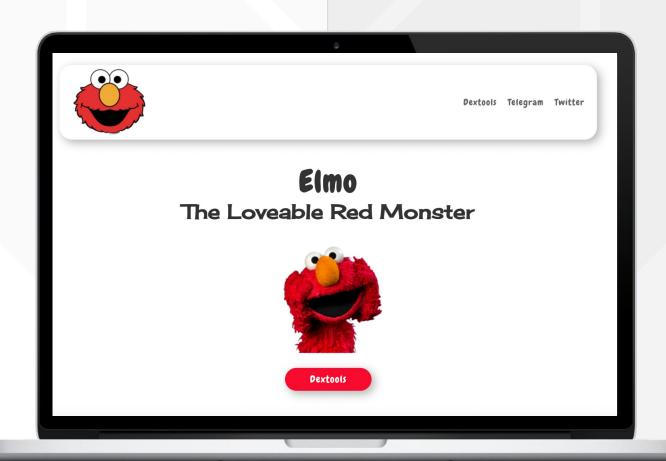
The website is currently being updated with new information to ensure investors understand what the project is about.

### Roadmap

Yes

### Mobile-friendly?

Yes



### elmoerc.com

SPYWOLF.CO

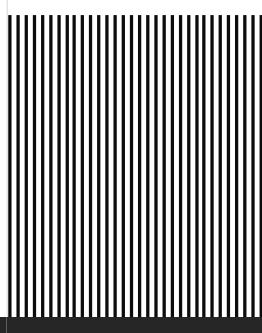
## The state of the s

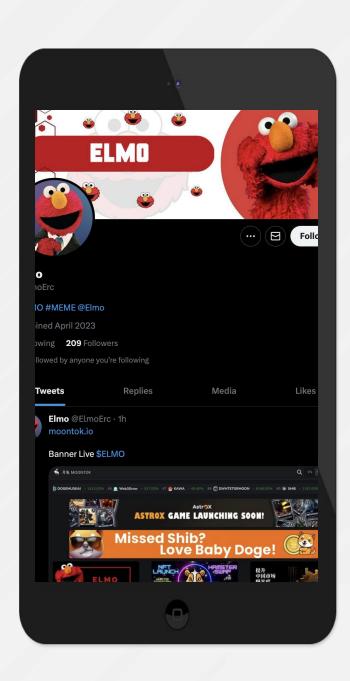
## SOCIAL MEDIA

& ONLINE PRESENCE

### **ANALYSIS**

The project's social media presence is new but active.







### **Twitter**

@ElmoErc

- 234 followers
- Daily posts



### Telegram

@elmoerc

- 183 members
- Active mods and devs
- Daily announcements



**Discord** 

Not available



Medium

Not available



## SPYWOLF CRYPTO SECURITY

Audits | KYCs | dApps Contract Development

## **ABOUT US**

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 500 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS,
  INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to contact@spywolf.co or t.me/joe\_SpyWolf

### **FIND US ONLINE**



SPYWOLF.CO



**SPYWOLF.NETWORK** 



@SPYWOLFNETWORK



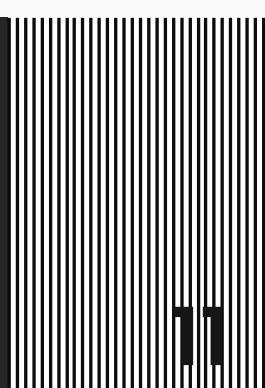
@SPYWOLFOFFICIAL



@SPYWOLFNETWORK



@SPYWOLFNETWORK





### Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

### **DISCLAIMER:**

By reading this report or any part of it, you agree to the terms of this disclaimer. If you do not agree to the terms, then please immediately cease reading this report, and delete and destroy any and all copies of this report downloaded and/or printed by you. This report is provided for information purposes only and on a non-reliance basis, and does not constitute investment advice.

No one shall have any right to rely on the report or its contents, and SpyWolf and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers and other representatives) (SpyWolf) owe no duty of care towards you or any other person, nor does SpyWolf make any warranty or representation to any person on the accuracy or completeness of the report.

The report is provided "as is", without any conditions, warranties or other terms of any kind except as set out in this disclaimer, and SpyWolf hereby excludes all representations, warranties, conditions and other terms (including, without limitation, the warranties implied by law of satisfactory quality, fitness for purpose and the use of reasonable care and skill) which, but for this clause, might have effect in relation to the report. Except and only to the extent that it is prohibited by law, SpyWolf hereby excludes all liability and responsibility, and neither you nor any other person shall have any claim against SpyWolf, for any amount or kind of loss or damage that may result to you or any other person (including without limitation, any direct, indirect, special, punitive, consequential or pure economic loss or damages, or any loss of income, profits, goodwill, data, contracts, use of money, or business interruption, and whether in delict, tort (including without limitation negligence), contract, breach of statutory duty, misrepresentation (whether innocent or negligent) or otherwise under any claim of any nature whatsoever in any jurisdiction) in any way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report. The analysis of the security is purely based on the smart contracts, website, social media and team.

No applications were reviewed for security. No product code has been reviewed.



12